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AR09400PU-L Human HADH / HCDH (13-314, His-tag) - Purified

Alternate names: HAD, HADHSC, Hydroxyacyl-coenzyme A dehydrogenase mitochondrial, Medium and short chain L-3-hydroxyacyl-coenzyme A dehydrogenase, SCHAD, Short chain 3-hydroxyacyl-CoA dehydrogenase

Quantity: 0.5 mg

Concentration: 1.0 mg/ml (determined by Bradford assay)

Background: HADH, which belongs to the family of oxidoreductases, is important for converting certain fats to energy. This protein is an enzyme that catalyzes the chemical reaction. ((S)-3-hydroxyacyl-CoA + NAD+ 3-oxoacyl-CoA + NADH + H+). It is also involved in a process called fatty acid oxidation, in which several enzymes work in a step-wise fashion to break down (metabolize) fats and convert them to energy.

Uniprot ID: Q16836

NCBI: AAH00306

GeneID: 3033

Species: Human

Source: E. coli

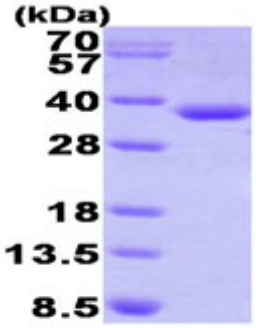
Format:
State: Liquid purified protein
Purity: >95% by SDS-PAGE
Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1 M NaCl

Description: Recombinant HADH protein, fused to His-tag, was expressed in E.coli and purified by using conventional chromatography techniques.
AA Sequence:
MGSSHHHHHH SSGLVPRGSH MSSSSTASAS AKKIIVKHVT VIGGGLMGAG IAQVAAATGH TVVLVDQTED ILAKSKKGIE ESLRKVAKKK FAENPKAGDE FVEKTLSTIA TSTDAASVVH STDLVVEAIV ENLKVKNELF KRLDKFAAEH TIFASNTSSL QITSIANATT RQDRFAGLHF FNPVPVMKLV EVIKTPMTSQ KTFESLVDFS KALGKHPVSC KDTPGFIVNR LLVPYLMEAI RLYERGDASK EDIDTAMKLG AGYPMGPFEL LDYVGLDTTK FIVDGWHEMD AENPLHQPSP SLNKLVAENK FGKKTGEGFY KYK
Molecular weight: 35.1 kDa (323 aa)

Storage: Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings: Tieu K, et al. (2004) Ann Neurol. 56(1):51-60.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human HADH, 13-314 aa, His-tagged: 15% SDS-PAGE (3 µg)